

# Delta Cross Channel Studies

## Status Report

---

- **Interdisciplinary studies in an experimental framework have been conducted in the last several years.**
- **Focus of studies to date has been local (near DCC facility) hydrodynamics and local fish behavior and movement patterns.**

# Delta Cross Channel Studies

## Status Report

---

- **Synthesis of all the interdisciplinary information produced from the DCC experiments has not yet occurred.**
- **Many reports on the experiment and studies are not completed.**
- **Timeline for completion is at least a year or two in the future.**

# Delta Cross Channel Studies

## Status Report

- **No conclusions or recommendations for long-term DCC re-operation has been made yet.**
- **The multi-purpose aspect of DCC operation (balancing the beneficial uses of fish, water quality and water supply) have not been addressed yet.**

# Additional Planned DCC studies

---

- **Focus will be on larger regional effects with DCC gates opened or closed.**
  - **Fish migration pathways**
  - **Salinity changes in Interior Delta.**
  - **Will be coordinated with other experiments/studies in the Central Delta.**

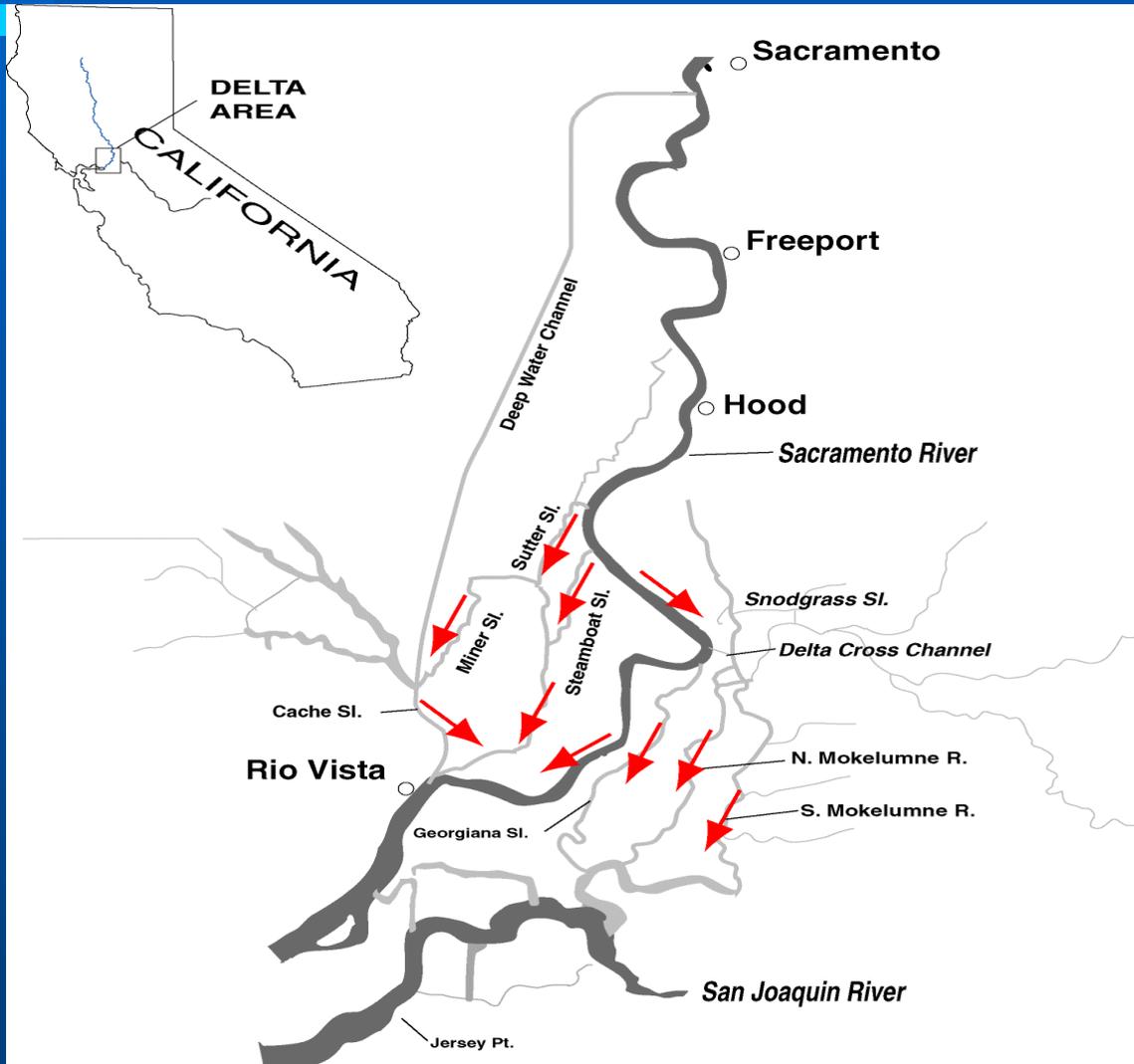
# Additional Planned DCC studies

---

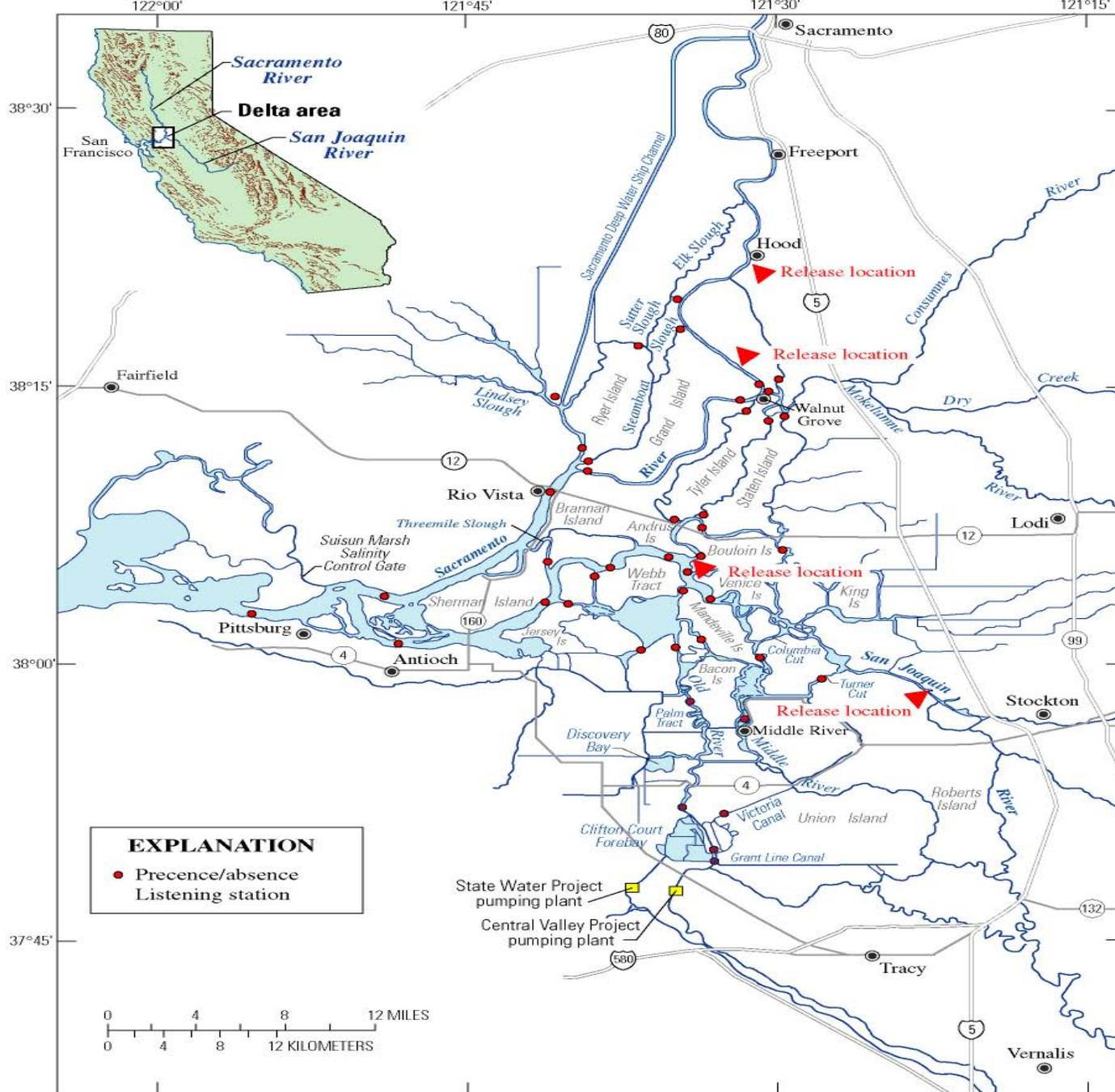
- **Timeline**

- **Goal is Fall of 2005**
- **Equipment and technology testing for proposed experimental framework has been occurring.**
- **Acoustic fish tag technology under development – could revolutionize understanding of salmon migration behavior.**
- **Preliminary funding estimates range from \$500K to \$1 million.**

# North Delta flows affected by DCC operations







Acoustic tag presence/absence listening stations.

# DCC Automation Issues

---

- **No formal conclusions or recommendations for long-term DCC re-operation has been made.**
- **Other alternatives may be pursued by CALFED if DCC re-operation is concluded to be infeasible or unpractical.**

# DCC Automation Issues

---

- **If a more frequent DCC opening – closing operation strategy is ultimately recommended.**
- **Reclamation will need to reassess DCC infrastructure.**
  - **Automation/Remote control equipment needs.**
  - **Review for any Electrical/Mechanical upgrades necessary.**
  - **Design Electrical/Mechanical, Communication and Public Safety needs.**
  - **Public Outreach for Recreational and Public Safety needs.**

# DCC Automation Issues

---

- **Preliminary Cost estimate – \$200K to \$300K if no significant electrical or mechanical upgrades are deemed necessary. Costs could increase substantially if upgrades are necessary.**
- **1 year timeline if no significant upgrades are needed.**